

PROCESS FOR THE PREPARATION OF PERFLUOROPOLYETHERS
HAVING ALDEHYDE, ALCOHOL, AMINE END GROUPS
BY CATALYTIC REDUCTION

ABSTRACT

Process for the perfluoropolyether preparation having reactive end groups $-\text{CH}_2\text{NH}_2$, $-\text{CHO}$, $-\text{CH}_2\text{OH}$, by reduction of the corresponding perfluoropolyethers having $-\text{CN}$, $-\text{COCl}$, $-\text{CHO}$ end groups by using gaseous hydrogen in the presence of a catalyst constituted by Pd, Rh, or Ru, supported on solid metal fluorides, at a temperature from 20°C to 150°C and under a pressure between 1 and 50 atm.